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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION N
10/661,168	09/12/2003	Atul D. Ayer	AR02766USACON2	7519
2777 <b>7</b>	7590 07/14/2004		EXAMINER	
PHILIP S. J JOHNSON &		CHANNAVAJJALA, LAKSHMI SARADA		
ONE JOHNSON & JOHNSON PLAZA			ART UNIT	PAPER NUMBER
NEW BRUN	SWICK, NJ 08933-700	1615		
			DATE MAIL ED: 07/14/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

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•		Application No.	Applicant(s)			
N. N.		10/661,168	AYER ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Lakshmi S Channavajjala	1615			
Period fo	The MAILING DATE of this communication or Reply	appears on the cover sheet with	h the correspondence addres	:s		
THE - External after - If the - If NC - Failu Any I	ORTENED STATUTORY PERIOD FOR REMAILING DATE OF THIS COMMUNICATIOnsions of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory per to reply within the set or extended period for reply will, by steply received by the Office later than three months after the reply date term adjustment. See 37 CFR 1.704(b).	ON. R 1.136(a). In no event, however, may a rent. In a reply within the statutory minimum of thirty individually apply and will expire SIX (6) MON tatute, cause the application to become AB.	ply be timely filed  (30) days will be considered timely.  "HS from the mailing date of this communication (35 U.S.C. § 133).	nication.		
Status						
1)	Responsive to communication(s) filed on _	•				
2a)	This action is <b>FINAL</b> . 2b)⊠	This action is non-final.				
3)□	Since this application is in condition for alle closed in accordance with the practice und	<u>'</u>	•	rits is		
Dispositi	on of Claims					
5)□ 6)⊠ 7)□	Claim(s) 1-11 is/are pending in the applica 4a) Of the above claim(s) is/are with Claim(s) is/are allowed. Claim(s) 1-11 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction are	drawn from consideration.				
Applicati	on Papers					
9)	The specification is objected to by the Exar	niner.				
10)	I0) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
	Applicant may not request that any objection to	• • • • • • • • • • • • • • • • • • • •	• '			
11)	Replacement drawing sheet(s) including the co The oath or declaration is objected to by the	, -,		, ,		
Priority u	ınder 35 U.S.C. § 119					
a)[	Acknowledgment is made of a claim for force All b) Some * c) None of:  1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International Bustee the attached detailed Office action for a	nents have been received. nents have been received in Appriority documents have been reau (PCT Rule 17.2(a)).	oplication No received in this National Stag	je		
Attachment	· •					
1) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview St	ımmary (PTO-413) /Mail Date			
3) 🔲 Inforn	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SE ^ No(s)/Mail Date		ormal Patent Application (PTO-152)	)		

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## **DETAILED ACTION**

Claims 1-11 are pending.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-11 rejected under 35 U.S.C. 103(a) as being unpatentable over Guittard et al (USPN 5,840,754) in view of Wong et al (USPN 5,082,668).

Instant claims are directed to an osmotic dosage form for delivering 0.5% to 65% of drug and 60% to 99.5% of a hexitol. Dependent claims recite a semi permeable wall surrounding oxybutynin and hexitol and an exit in the wall for delivering the drug. The dependent claims recite specific polyitol and oxybutynin.

Guittard teaches dosage forms comprising oxybutynin and a method for administering the same. Guittard teaches several acceptable salts of oxybutynin such as acetate, hydrochloride, citrate etc (col. 3, lines 34-44), an osmotic solute such as inositol, sorbitol, citric acid etc (col. 3, lines 54-64). The delivery device contains a semi permeable wall surrounding the oxybutynin and osmagent containing core, and a passageway in the wall that connects the exterior of the drug delivery device with the internal compartment (col. 4, lines 41-68). Guittard fails to teach any hexitol or in particular mannitol as an osmagent in the osmotic drug delivery system.

Wong teaches a controlled and continuous, osmotic delivery system comprising a core containing an active agent, a push agent and an osmagent, surrounded by a semi

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permeable membrane and a passageway in the membrane (see col. 3, lines 26-68 and col. 5, lines 31-44; col. 19, lines 62-65). Wong teaches several osmagents including sorbitol, inositol, mannitol etc, at a concentration of 0.01% to 30% or higher (col. 15, lines 38 through col. 16, lines 1-39). Wong teaches the delivery system is useful for delivering highly water soluble as well as poorly water-soluble active agents (col. 20-21).

Thus, both Guittard and Wong are directed to controlled release, osmotic drug delivery systems which utilize osmotic solutes or osmagents for the delivery of drugs. While both teach osmagents, Guittard fails to teach hexitol or in particular, mannitol. However, Wong teaches osmagents including mannitol as well as those taught by Guittard i.e., sorbitol, inositol etc., as equally effective in delivering the drug to the exterior, as they all are capable of exhibiting an osmotic pressure gradient across the semi permeable wall. Accordingly, it would have been within obvious for a skilled artisan at the time of the instant invention to use the osmotic agent, mannitol (Wong), or other polyhydric alcohols because Wong teaches that all the osmotic solutes attract fluid into the reservoir producing a solution or a suspension of the drug and deliver concomitantly from the system the dissolved or undissolved drug to the exterior. Thus, one of an ordinary skill in the art would expect that the osmotic solutes such as mannitol result in the successful release of oxybutynin to the exterior, in a controlled and continuous drug delivery due to the dual thermodynamic osmotic activity of the delivery system of Wong. Furthermore, while Wong does not teach the claimed percentages of mannitol, optimizing the amount of mannitol with an expectation to enhance the attraction of fluid in to the reservoir and thus deliver the optimum amount of oxybutynin to the exterior.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lakshmi S Channavajjala whose telephone number is 571-272-0591. The examiner can normally be reached on 7.30 AM -4.00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thurman K Page can be reached on 571-272-0602. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lakshmi S Channavajjala

Examiner

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July 12, 2004